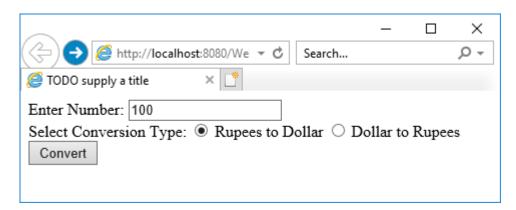
```
6a) Create a Currency Converter Application in EJB File Name: Index.html
```

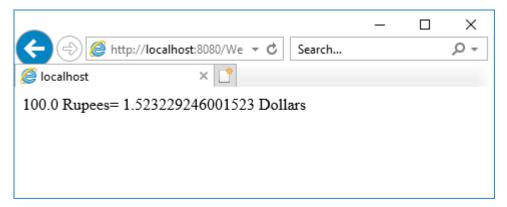
```
<html>
  <head>
    <title>TODO supply a title</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <form action="CCServlet">
    Enter Number: <input type="text" name="amt" > <br>
      Select Conversion Type:
      <input type="radio" name="type" value="r2d" checked> Rupees to Dollar
      <input type="radio" name="type" value="d2r"> Dollar to Rupees <br>
      <input type="submit" value="Convert">
    </form>
  </body>
</html>
File Name: CCBean.java
package mybean;
import javax.ejb.Stateless;
@Stateless
public class CCBean {
  public CCBean() {
  public double r2Dollar(double r)
    return r/65.65;
  }
  public double d2Rupees(double d)
    return d*65.65;
 }
File Name: CCServlet.java
package <u>newpackage</u>;
import java.io.IOException;
import java.io.PrintWriter;
import javax.ejb.EJB;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

public class CCServlet extends HttpServlet {

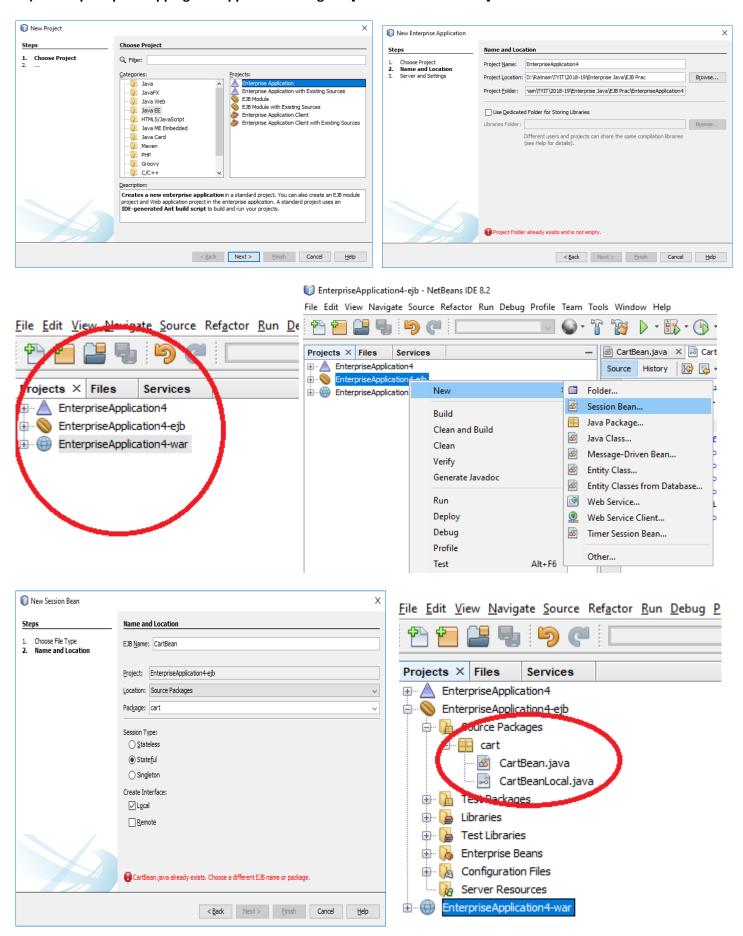
import mybean.CCBean;

Output:





6c) Develop simple shopping cart application using EJB [Stateful Session Bean]

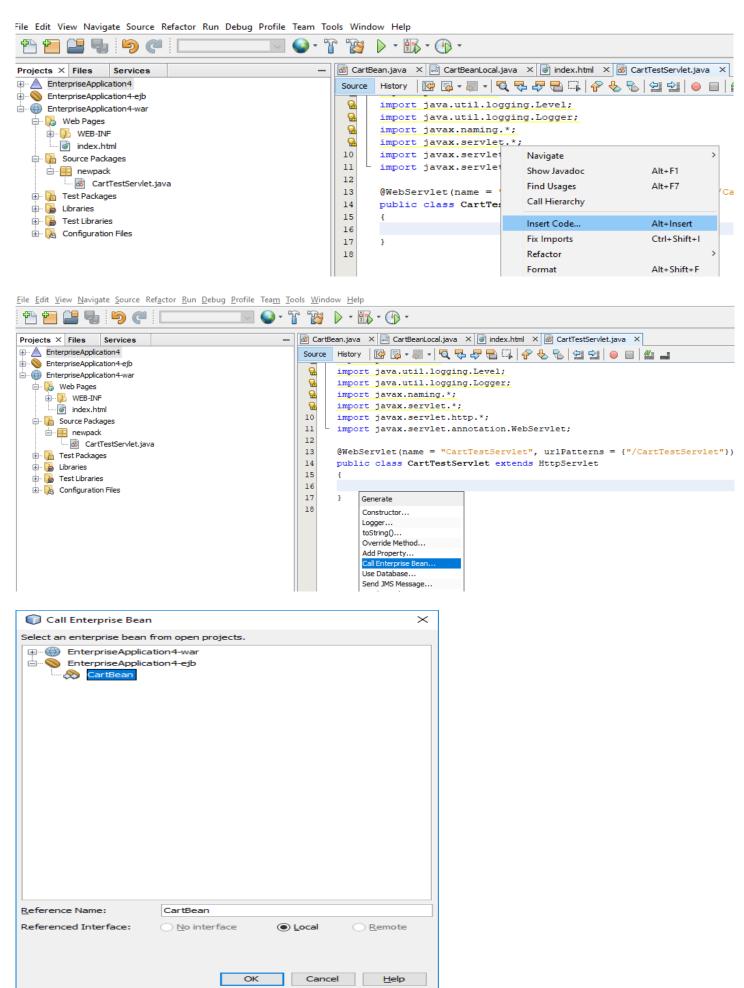


File Name: CartBeanLocal.java

```
package cart;
import java.util.List;
import javax.ejb.Local;
@Local
public interface CartBeanLocal {
  public void initialize(String person) throws Exception;
  public void initialize(String person, String id) throws Exception;
  public void addBook(String title);
  public void removeBook(String title) throws Exception;
  public List<String> getContents();
  public void remove();
}
File Name: CartBean.java
package cart;
import java.util.ArrayList;
import java.util.List;
import javax.ejb.Remove;
import javax.ejb.Stateful;
@Stateful
public class CartBean implements CartBeanLocal {
  String customerName;
  String customerId;
  List<String> contents;
  @Override
  public void initialize(String person, String id)
  throws Exception {
  if (person == null)
  {
    throw new Exception("Null person not allowed.");
  }
  else
    customerName = person;
  if ("ABC".equals(person) && "123".equals(id))
  {
    customerId = id;
  }
  else
    throw new Exception("Invalid id: " + id);
```

}

```
contents = new ArrayList<String>();
  }
  @Override
  public void addBook(String title)
    contents.add(title);
  }
  @Override
  public void removeBook(String title) throws Exception
  {
    boolean result = contents.remove(title);
    if (result == false)
    {
      throw new Exception(title + " not in cart.");
    }
  }
  @Override
  public List<String> getContents()
  {
    return contents;
  }
  @Remove
  @Override
  public void remove()
    contents = null;
  }
  @Override
  public void initialize(String person) throws Exception {
    throw new UnsupportedOperationException("Not supported yet.");
  }
}
File Name: Index.html
<html>
  <head>
    <title>TODO supply a title</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <form action="CartTestServlet">
      <input type="submit" value="Go">
    </form>
  </body>
</html>
```



File Name: CartTestServlet.java package newpack; import cart.CartBeanLocal; import java.io.*; import java.util.*; import java.util.logging.Level; import java.util.logging.Logger; import javax.naming.*; import javax.servlet.*; import javax.servlet.http.*; import javax.servlet.annotation.WebServlet; @WebServlet(name = "CartTestServlet", urlPatterns = {"/CartTestServlet"}) public class CartTestServlet extends HttpServlet { CartBeanLocal cartBean = lookupCartBeanLocal(); @Override protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException { try cartBean.initialize("ABC", "123"); }catch(Exception e){} cartBean.addBook("Java 8 Cookbook"); cartBean.addBook("Enterprise Java 7 "); cartBean.addBook("Java for Dummies"); cartBean.addBook("Learn Java 8"); try (PrintWriter out = response.getWriter()) { try { List<String> books = cartBean.getContents(); for(String s : books) out.println(s +"
"); }catch(Exception e){} } } private CartBeanLocal lookupCartBeanLocal() { try { Context c = new InitialContext(); return (CartBeanLocal) c.lookup("java:global/EnterpriseApplication4/EnterpriseApplication4ejb/CartBean!cart.CartBeanLocal");

}

catch (NamingException ne)

```
{
    Logger.getLogger(getClass().getName()).log(Level.SEVERE, "exception caught", ne);
    throw new RuntimeException(ne);
    }
}
```

Output:

